

CLAIMS

1. The LATERALLY CURVED LAPAROSCOPIC SURGICAL CLIP is characterized by a two-legged structure, in which each leg is a mirrored image of its counterpart (2). The legs are joined on one end by a flexible articulation (8) whereas the other end contains the locking mechanism (9). According to these features, one should easily recognize the lateral curvature between the extremities when viewing it from the top (drawing 9) or from the side (drawing 10). Its curved design is slim and innovative, possessing an array of internal “teeth”, thus allowing for total or partial occlusion of vessels of all sizes, depending on the application angle, therefore enabling blood flow beyond the occlusion when partially applied (drawing 8).
2. The LATERALLY CURVED LAPAROSCOPIC SURGICAL CLIP, according to claim 1, contains a male to female locking system, which is located at the free end (4) of the clip, where a mushroom-shaped “male” pin (5) snaps, under pressure, to a “female” orifice (6). Both “male” and “female” components are located at a central position of the free end, where, once locked together, present no danger of spontaneous unlocking.
3. The LATERALLY CURVED LAPAROSCOPIC SURGICAL CLIP, according to claims 1 and 2, contains a tissue apprehension system along its occlusion faces, which contains longitudinal creases in both legs, where the ridges on one leg fit the grooves of the opposed leg. (Drawings do not show the longitudinal creases).
4. The LATERALLY CURVED LAPAROSCOPIC SURGICAL CLIP, according to claims from 1 to 3, presents configurative variants which are described in detail in the report and are represented by drawings 5, 6 and 7.